

SeaQuest/E906 AEM Report

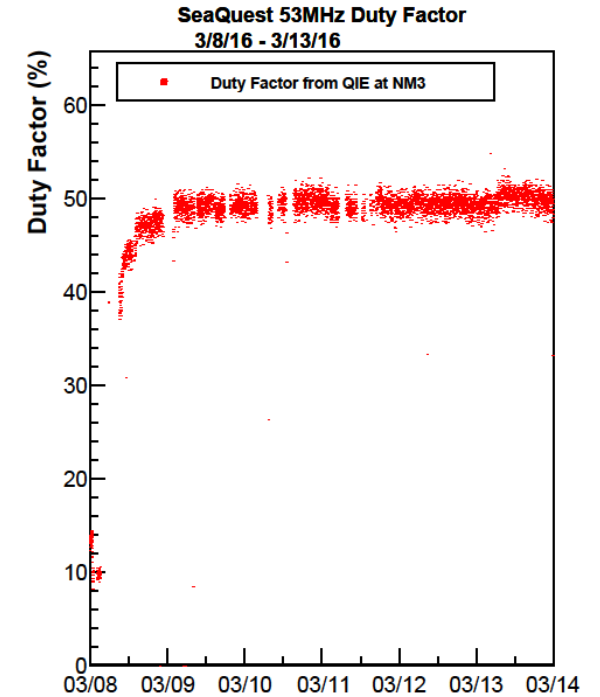
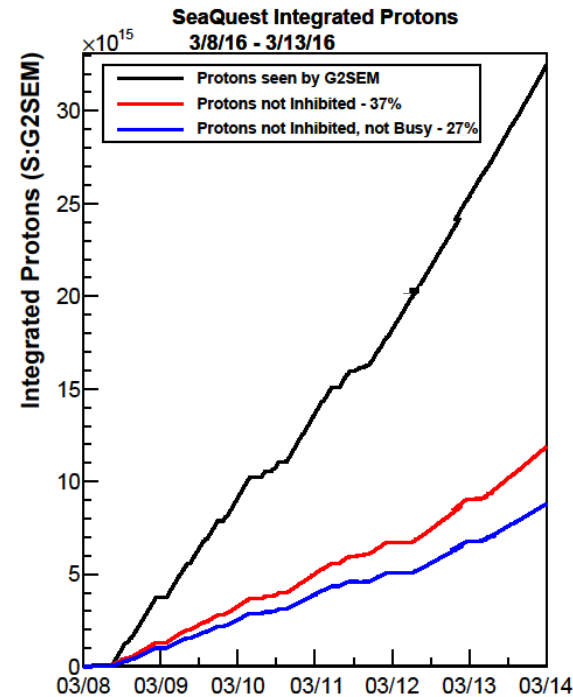
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Beam

- Started taking beam on Monday morning. About $8.8\text{E}15$ live protons taken.
- Duty factor came back to regular value along data taking.

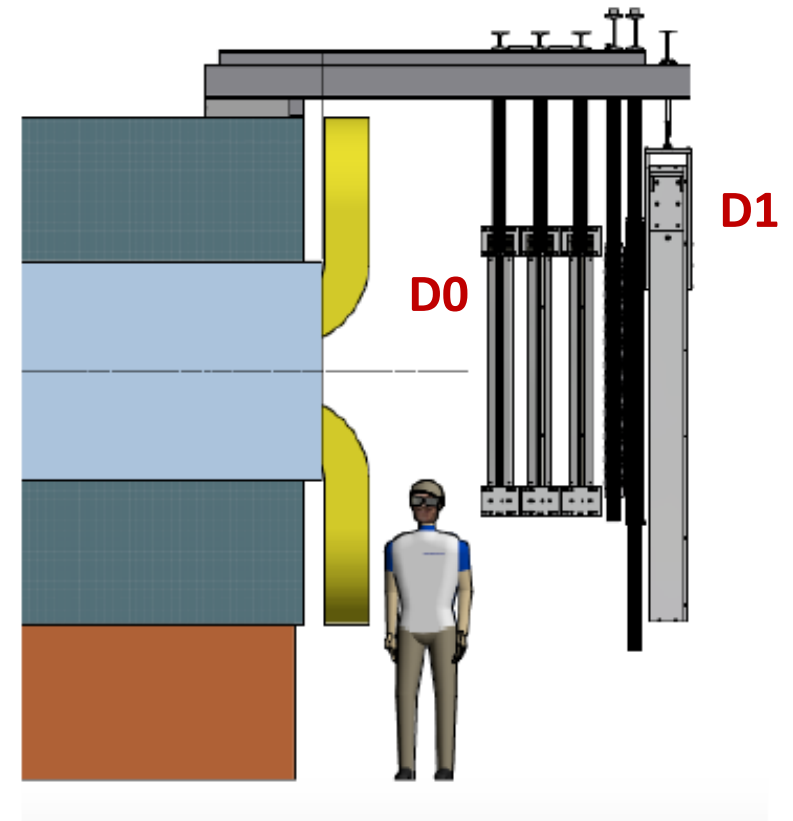


Targets

- Last week, liquid targets vented due to site wide power outage.
- Started data taking with solid targets on Mon. morning.
- Insulation vacuum prepared at Mon. morning, liquid targets cooling down started.
 - **LH2** -- Filling done Tue. afternoon.
 - **LD2** -- Bottle somehow turned off during filling, and a ice ball built in flask.
 - Warmed up and restarted the procedure on Wed.
 - Filling done Fri. morning, started data taking with all targets
- LD2 pressure sensor & LH2 flammable gas sensor replaced

Drift Chambers

- D0
 - Low efficiency region observed in V_p
 - Other planes working fine
 - Gas line modified
- D1
 - Gas purge finished Wednesday afternoon
 - Gain tested, consistent with previous values
 - HV gradually increased, currently at 1630V
- Mapping files renewed, checked.
- Needed to change cables and amplifier cards
- D2 and D3 are mostly working fine



Experiment Status

- Hodoscopes & Prop tubes
 - Found two St.1 hodoscopes missing – one due to loose signal cable, the other one due to faulty HV board
 - Prop tube noise reduced by replacing grounding copper tape on the amp./disc. card
- DAQ
 - CPU for trigger supervisor had problems → reconfigured
 - Bad TDC caused low trigger rate → replaced

Plan

- Re-establish nominal data taking
 - Looking into issues with noisy and low-efficiency channels.
 - Tuning chamber HV and threshold.
- **Take good data.**